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Executive Registry

DD/S&T-0986-64

1964 APM-2.

MEMORANDUM FOA: Deputy Director of Central Intelligence

THROUGH Executive Director -- Comptroller

SUBJECT Approval of Punds to Pursue Development of

Miniaturized Traveling Tave Tube

CEARET

This memorandum transmits a recommendation for approval. Such recommendation is contained in paragraph 想令¥停路。

OBJECTIVES: Our provious SIGINT program required the development of a low noise traveling wave tube proamplifier that exhibited high gain with a very low noise figure. This development was accomplished to a very big 25X1A5A1 degree of setisfaction by the

Pursuant to our request, mitted a proposal to develop a ministurized version of this presmplifier. The program will entail the development and production of a battery powered TVT preamplifier that weighs approximately five pounds. Their new concept in heater cathode design will reduce the power consumed from the present 2.00 watts, to 2 possible 16 milli-watts. This latter figure will permit the system to operate continuously for a period of ton days.

- APPLICATION: Many of our SIGINT activities have demonstrated a need for a portable collection system with a capability comparable to a fixed station operation. This proposed advancement in ministurization and low power coasumption will permit the development of a highly sensitive preamplifier for portable receivers that will closely approach this objective. If the program achieves its desired goal, an operational tool will become available that will greatly enhance many future microvave systems and permit the upgrading of certain systems that are in current use.
- TECHNICAL SPECIFICATIONS: Background data contained in attachments A and B is designed to provide necessary technical information upon which to evaluate the approval action recommended in paragraph seven.

Subject Capy

SROUP 1 Excluded them arismatic downgrading and declasalification

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5. CONTRACTOR: The idea and practical nethod for designing optimum ministerized personent magnets was conceived . They have a rest smoont of background and emperionee and have already accumulated data that clearly deponstrates their ability to focus a low-moise tube at better than 99 percent transmission through a single reversal structure. Since other manufacturers of Try's have not demonstrated a similar ability. sidered to be a sole source for the accomplishment of thi 25X1A5A1 Treus Francis.

25X1A1A

s. DERETTON AND PREDICT: Total development expense for 25X1A1A carmarked for the execution of this research effort. and the balance will be obtained by reprogramming. The contract is to be valid for a period of one year from date of association and will require no additional funding in FY-65.

> 7. Based on the foregoing, it is recommended that you approve an empenditure of for purposes set forth hereia.

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original signed by

ALLANT D. REVILOR Domir Director tioned and Technology)

The recommendation contained in paragraph oeven to approved:

(mysed) Assertation of Central Intelligence

17 MAR 1964

Attachm ats

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